

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows without prejudice or disclaimer.

Cancel claims 1-51.

Insert new claims 52-81.

1-51. Cancelled

52. (New) A isolated peptide having the ability to bind pertussis toxin, the peptide comprising an amino acid sequence selected from the group consisting of:

RSSHCRHRNCHTITRGNMRIETPNIRKDAK (SEQ ID NO.: 67)

RSSHCRHRNCHTITRGNMRIETPNIRKDA (SEQ ID NO.: 68)

RSTMNTNRMDIQLMTNHHVVRDSSPGSIDA (SEQ ID NO.: 69)

RSNVIPLNEVWYDTGWDRPHRSRLSIDDDA (SEQ ID NO.: 70)

RSWRDTRKLHMRHYFPLAIDSYWDHTLRDA (SEQ ID NO.: 71)

SGCVKKDEL CARWDLVCCEPLECIYTSELYATCGK (SEQ ID NO.: 72)

SGCVKKDEL CARWDLVCCEPLECIYTSELYATCG (SEQ ID NO.: 73)

SGCVKKDELCELA VDECCEPLECFQMGHGFKRCG (SEQ ID NO.: 74)

SGCVKKDELCSQSVPMCCEPLECKWFNENYGICGS (SEQ ID NO.: 75); and,

SGCVKKDELCELAIDECCEPLECTKGD LGFRKCG (SEQ ID NO.: 76)

53. (New) A peptide having the ability to bind pertussis toxin and the amino acid sequence RSNVIPLNEVWYDTGWDRPHRSRLSIDDDA (SEQ ID NO.: 70).

54. (New) A peptide having the ability to bind pertussis toxin and the amino acid sequence SGC VKKDELCSQSVPMCCEPLECKWFNENYGICGS (SEQ. ID NO.: 75).

55. (New) A peptide of claim 52 wherein at least one amino acid is conservatively substituted.

56. (New) A peptide of claim 53 wherein at least one amino acid is conservatively substituted.

57. (New) A peptide of claim 54 wherein at least one amino acid is conservatively substituted.

58. (New) A biotinylated peptide of claim 52.

59. (New) A peptide of claim 52 attached to glutathione-S-transferase.

60. (New) A peptide of claim 52 attached to a solid support.

61. (New) A biotinylated peptide of claim 58 attached to a solid support.
62. (New) The biotinylated peptide of claim 61 wherein the solid support is sepharose.
63. (New) The peptide of claim 60 further comprising pertussis toxin bound to the peptide.
64. (New) Use of a peptide of claim 52 in the purification of pertussis toxin.
65. (New) Use of a peptide of claim 58 in the purification of pertussis toxin.
66. (New) Use of a peptide of claim 59 in the purification of pertussis toxin.
67. (New) Use of a peptide of claim 60 in the purification of pertussis toxin.
68. (New) Use of a peptide of claim 61 in the purification of pertussis toxin.
69. (New) Use of a peptide of claim 62 in the purification of pertussis toxin.